

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 to 13 (canceled).

Claim 14 (currently amended): A medical fluid system comprising:

a medical fluid flow path having a medical fluid supply, a first pump operable in a non-isolated condition to pump medical fluid from the supply to an extracorporeal circuit/blood filtering device and a second pump operable to pull fluid from the blood filtering device;

at least one ultrafilter upstream of the blood filtering device;

a flowmeter in fluid communication with a rinse outlet of the at least one ultrafilter;

an apparatus operable to isolate the blood filtering device from the rest of the medical fluid flow path to form an isolated condition; and

a control scheme programmed to (a) receive a volume from an entry by an operator when commencing delivery of the volume and (b) deliver a the volume of fluid to the extracorporeal circuit by commanding: (i) the isolating apparatus to isolate the blood filtering device and (ii) the first pump to concurrently deliver the volume of fluid from the medical fluid supply to the extracorporeal circuit.

Claim 15 (previously presented): The medical fluid system of Claim 14, wherein the fluid volume is a bolus volume, the control scheme configured to deliver the bolus volume during therapy to help prevent a patient from becoming hypotensive.

Claim 16 (currently amended): The medical fluid system of Claim 15, wherein the fluid volume is a bolus volume, and wherein the control scheme is programmed to receive an operator input to commence delivery of the bolus volume.

Claim 17 (canceled).

Claim 18 (currently amended): The medical fluid system of Claim 15, wherein the fluid volume is a bolus volume, and wherein the control scheme is programmed to receive an amount of the bolus volume prior to commencement of therapy.

Claim 19 (currently amended): The medical fluid system of Claim 15, wherein the fluid volume is a bolus volume, and wherein the control scheme is programmed upon a biosensor input to commence delivery of the bolus volume.

Claim 20 (original): The medical fluid system of Claim 19, wherein the biosensor is selected from the group consisting of a hematocrit sensor, a blood volume sensor, an electrolytic sensor, an oxygen sensor and any combination thereof.

Claim 21 (previously presented): The medical fluid system of Claim 14, wherein the fluid volume is a rinseback volume, the control scheme configured to deliver the rinseback volume at the end of therapy to rinse blood in the extracorporeal circuit back to a patient.

Claim 22 (previously presented): The medical fluid system of Claim 14, wherein the apparatus operable to isolate comprises a three-way valve allowing selective delivery of the medical fluid supply to the blood filtering device and to the extracorporeal circuit.

Claim 23 (currently amended): A medical fluid system, comprising:
a medical fluid flow path having a medical fluid supply, a first pump operable to pump medical fluid from the supply to an extracorporeal circuit/blood filtering device and a second pump operable to pull fluid from the blood filtering device;
at least one ultrafilter upstream of the blood filtering device;
an apparatus operable to isolate the blood filtering device from the rest of the medical fluid flow path to form an isolated condition; and
a control scheme programmed to (a) receive an amount of a volume prior to commencement of therapy and (b) deliver a the volume of fluid to the extracorporeal circuit as a prime, a rinseback or a bolus by commanding: (i) the isolating apparatus to isolate the blood

filtering device and (ii) the first pump to concurrently deliver the volume of fluid from the medical fluid supply.

Claim 24 (previously presented): The medical fluid system of Claim 23, wherein the control scheme is programmed to receive a volume from an entry by an operator when commencing delivery of the volume.

Claim 25 (canceled).

Claim 26 (previously presented): The medical fluid system of Claim 23, wherein the control scheme is programmed to deliver a rinseback volume until a threshold amount of blood is no longer sensed in the extracorporeal circuit.

Claim 27 (previously presented): The medical fluid system of Claim 23, wherein the fluid volume is a prime, the control scheme configured to deliver the prime at the beginning of the therapy to remove air from the extracorporeal circuit.

Claim 28 (previously presented): The medical fluid system of Claim 23, further comprising a third pump operable to receive the medical fluid from the apparatus operable to isolate and to pump the medical fluid to the extracorporeal circuit.

Claim 29 (previously presented): The medical fluid system of Claim 27, further comprising a flowmeter in fluid communication with the medical fluid flow path and the at least one ultrafilter.

Claim 30 (previously presented): The medical fluid system of Claim 23, wherein the apparatus operable to isolate comprises a valve and a three-way valve.

Claim 31 (currently amended): A medical fluid system comprising:
a medical fluid flow path having a medical fluid supply, a first pump operable in a non-isolated condition to pump medical fluid from the supply to an extracorporeal circuit and a blood

filtering device, a second pump operable to pull fluid from the blood filtering device and a third pump operably connected to the extracorporeal circuit;

at least one ultrafilter upstream of the blood filtering device and a flowmeter in fluid communication with a rinse outlet of the at least one ultrafilter and the medical fluid flow path;

an apparatus operable to isolate the blood filtering device from the rest of the medical fluid flow path to form an isolated condition; and

a control scheme configured for periodic flow from the rinse outlet of the at least one ultrafilter to a drain, the control scheme programmed to deliver a volume of fluid to the extracorporeal circuit by commanding: (i) the isolating apparatus to isolate the blood filtering device and (ii) the third pump to deliver the volume of fluid from the apparatus operable to isolate to the extracorporeal circuit.

Claim 32 (previously presented): The medical fluid system of Claim 31, wherein the control scheme is programmed to deliver the prime until air is no longer sensed in the extracorporeal circuit.

Claim 33 (previously presented): The medical fluid system of Claim 31, wherein the system is programmed to perform hemodiafiltration and the isolating apparatus includes first and second valves placed upstream and downstream of the blood filtering device.

Claim 34 (previously presented): The medical fluid system of Claim 31, wherein the system is programmed to perform hemofiltration and the isolating apparatus includes a valve placed downstream of the blood filtering device.

Claim 35 (previously presented): The medical fluid system of Claim 31, wherein the isolating apparatus includes a bypass valve operable to bypass fresh medical fluid around the blood filtering device in the medical fluid flow path.

Claim 36 (previously presented): The medical fluid system of Claim 31, wherein the medical fluid flow path is configured to selectively deliver medical fluid to the extracorporeal circuit upstream or downstream of the blood filtering device.

Claim 37 (canceled).

Claim 38 (previously presented): The medical fluid system of Claim 31, wherein the rinse outlet of the at least one ultrafilter is in operable communication with the flow meter.

Claims 39 to 107 (canceled).